



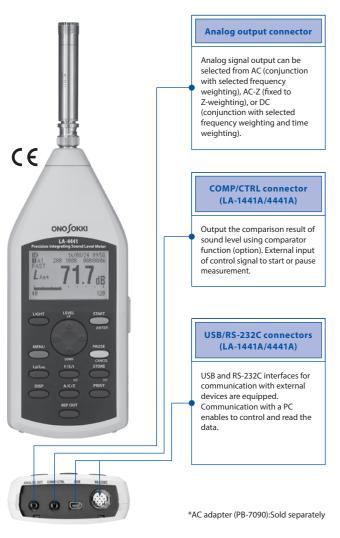
Achieves the ease of use and high-performance measurement



The LA-1411/1441A/4441A provides full support for on-site measurement with versatile functions.

The LA-1411/1441A/4441A series Class1/Class2 Sound Level Meters conform to the requirements by the latest standard of IEC/JIS. And also they are designed to focus on field measurement in pursuing of easy operation and cost-effectiveness. All models can measure 14 items simultaneously including Leg, which is popularly used in sound measurement, and have a wide linearity range of 100 dB.

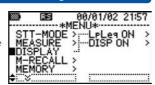
Setting can be made with easy-to-follow menu. Depending on applications including work environment measurement, machine and product noise analyses, you can choose suitable model which meets your needs.



Easy-to-follow setting menu without referring to the manual

Each model has simply classified hierarchical structure.

Easy-to-follow setting menu leads to complete each setting by selecting menu items with just [+] and [ENTER] keys.



Microphone can be used away from main unit by BNC cable

Exclusive coaxial cable is used as an extension cable between microphone and a

main unit. Coaxial cable makes extension of measurement cable easier with small code reel. Even you need to measure with 100 m extension cable, you can perform without annoyance than heavy multicore cable.



Not only the measurement of level in the field, but also recording data (time waveform) is required in order to analyze noise and sound in details. The LA-1411/1441A/4441A enables to output signal with flat 7-weighting from analog



Extension cable

Measuring the noise at L ... by sound level meter and recording with flat Z-weighting by FFT Analyzer.

output connector during displaying and measuring sound level with A-weighting in main unit.

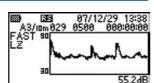
With this unit, it is possible to output a signal with a different weighting from the weighting of the sound level displayed on the main unit screen.

That is, they can output signal with flat z-weighting from analog output connector during displaying the measured sound level with A-weighting in a screen on the main unit.

Auto memory function and L_p recording function (LA-1441A/4441A)

The LA-1441A/4441A has Auto memory All models with Equivalent Continuous Sound Pressure function which automatically store the data to the specified measurement time. Also the sound level with time weighting (Lp) is stored All models of the LA-1411/1441A/4441A can measure 14 measurement items at 1 ms interval (Lp recording function). This including Equivalent Continuous Sound Pressure Level (Leg), which is widely function enables to check the fluctuation of sound level in short time.

> *Storing interval can be selected from 1ms, 2ms, 5ms or 10ms. Maximum of 200 seconds can be stored at 1ms interval



Displays level on vertical axis, time on

Multiple simultaneous measurements

Level (Leg) measurement function

used as an indicator at present sound measurement.

The LA-1411/1441A/4441A can calculate all of 14 measurement items simultaneously. No need by selecting measurement item to calculate before measurement, no error by miss-setting. Only one pressing of START button is required to start measurement. All results of measurement items can be checked with several pressings of DISP (abbreviation of DISPLAY) button after measurement.

*14 measurement items: Lp, Leq, LE, Lmax, Lmin, Lpeak, Lhigh, Ls, L10, L50, L90, L95, Llow, Lave. The all items can be calculated simultaneously and saved as needed.

Wide linearity of 100dB without adjusting level range

Re-measurement is not necessary for over/under-range. The LA-1411/1441A/4441A features a wide linearity range of 100 dB and can measure the sound pressure level from 30 to 130 dB at one range*. It works effectively in the measurement of unpredictable or large fluctuation in sound level

*Sound pressure level from 30 to 130dB can be measured at the range of 40 to 120dB

Resume function to activate with same settings as last time

Same as existing LA series, measurement conditions just before being powered OFF are automatically saved. Measurement can be started again guickly with previous measurement conditions (Resume function). The LA series have 9 condition memories and able to store the measurement condition as required by each situation. Presetting the measurement conditions not only makes it smooth to restart measurement but also prevents from setting error in the field.

Easy data transfer and remote controll (LA-1441A/4441A) (required software: user preparation)

Communications via RS-232C or USB enables to transfer the measurement result to a PC and remote controll of the LA-1441A/4441A main unit with software (user preparation).



Peripherals

Sound Calibrator

The sound calibrator is used for unit calibration of measurement microphones and confirmation of indicated value for sound level meter. It is important to use a sound calibrator before and after measurement in order to perform correct measurements. When using a class 1 sound level meter, using a class 1 sound calibrator is recommended.

Why are sound calibrators required?

In IEC 61672-1, entire sound level meters including sensors shall be calibrated with sound calibrators. Since sound pressure is affected by temperature and air pressure, it is required to use a sound calibrator

sold separately

Model name	SC-2600	SC-2500A	SC-2120A
Appearance			•
Applying standard	IEC 60942:2017 Class 1	IEC 60942 :2017 Class 1	IEC 60942 :2003 Class 2
	JIS C 1515:2020 Class 1	JIS C 1515 :2020 Class 1	JIS C 1515 :2004 Class 2
Applicable sound level meter	LA-1411 LA-1441A LA-4441A	LA-1411 LA-1441A LA-4441A	LA-1411 LA-1441A
Nominal sound pressure level	94 dB	114 dB	94 dB
Nominal frequency	1000 Hz	1000 Hz	1000 Hz

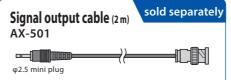
^{*}For Sound level meter LA-4441A conforming to IEC61672(JIS C 1509) Class1, use Sound Calibrator Class 1 or 1/C.



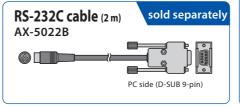
Input voltage : 100 to 240VAC, 50/60Hz Output voltage Output connector : EIAJ RC-5320A Voltage category2

Rated output current : 3.5A

Please specify the AC cord depending on the area used.



Cable for AC/DC signal output, comparator output, and external control signal input.



Outer Dimensions

sold separately All-weather Windscreen LA-0207A+LA-0208A

In measurement where the microphone is exposed to the wind, the windscreen must be used for protection. This screen reduces noise caused by the wind in performing sound level

measurement outdoors, and prevents the microphone from being damaged by rain or snow Screen diameter: ø200mm

AG-2000 series extension cable and tripod are necessary

Standard accessories Windscreen φ70mm LA-0201 •Size AA battery x 2 Simple operation guide •Carrying case (exclusive) *Strage space for AC adapter, sour

sold separately

sold separately Tripod Sound Level Meter Tripod

Lowest position 170 mm

sold separately

Extension cable AG-2000 series (coaxial type)



AG-2010 10 m AG-2030 30 m 50 m with code reel AG-2100 100 m with code reel

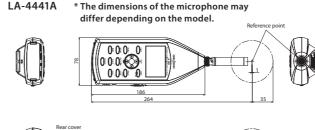
MI-0301 Microphone holder is a standard accessory of each extension cable

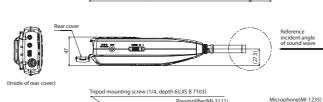
Conjunction cable (5m) is attached to an extension cable with code reel for connection to a main unit of a Microphone can be used away from main unit of sound level meter by connecting several extension cable. cable with code reel for connection to a main unit of a sound level meter

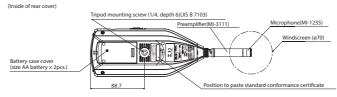
Cable length for CE marking compatible: less than 30 m

Sound Level Meter Function Table

●:Provided as a standard ○:Provided as an option







		Linearity ra	nge 100dB
		Manual memory	Continuous measurement [Auto memory/Block memory]
Class 2 (20 Hz to 8 kHz)		_	_
Long distance extension [BNC type]		LA-1411	LA-1441A
Class 1 (16 Hz to 16 kHz)		_	_
Long distance extension [BNC type]wide band		-	LA-4441A
General purpose(L _p ,L _{max} ,L _{eq})		•	•
Fluctuation noise(Leq, LN, LE)		•	•
Working environment (Leq for 10 minutes)		•	•
Factory noise		•	•
Mechanical noise		•	•
Time weighting of 10 ms		_	●(LA-4441A only)
External control function	RS-232C connection	-	•
	USB(virtual COM port connection)	_	•
Trigger function (Starting of measurement data storage)		_	•
Trend display of sound data		●(Realtime data only)	●(Realtime data+storage data)
Data storage into an internal memory		●(Manual memory 100 data)	●(Manual memory 100 data+ Block memory max. 200,000 data)
Level judgment [comparator output]		_	0
External control		_	•
Storage cycle of sound data		_	Calculation value 1 s/ instantaneous value 1 ms or more



		LA-1411	LA-1441A	LA-4441A		
Applying sta	andards	IEC 61672-1 :	:2013 Class 2	IEC 61672-1 :2013 Class 1		
Арріунід за	aridards		2 JIS C 1516 :2020 Class 2	JIS C 1509-1 :2017 Class 1		
Microphone	•		t-type condenser type nsitivity level: –29dB	1/2-inch back electret-type condenser type MI-1235 Nominal sensitivity level: –29dB		
Preamplifier			MI-3111			
Linearity ran			100 dB(wide range), 80 dB(normal range)			
Frequency ra	ange	10Hz to 8kH	Az (JIS, IEC)	10Hz to 20kHz (JIS, IEC)		
All the linearity range		A : 26 to 135dE C : 31 to 135dE Z : 36 to 135dE	B (JIS, IEC)	A : 27 to 135dB (JIS, IEC) C : 30 to 135dB (JIS, IEC) Z : 35 to 135dB (JIS, IEC)		
Frequency w	veighting	A, C, Z				
Intrinsic nois	se	A: 20dB, C: 25dB, Z: 30dB		A: 19dB, C: 22dB, Z: 27dB		
Level range		20 to 90dB, 30 to 90dB, 40 to 10	ange)/40 to 120dB (Wide range)			
Time weight	ting	Fast, Slow Fast, Slow, Impulse, 10ms				
Measurement items		Lp, Leq, LE, LN (Ls, L ₁₀ , L ₅₀ , L ₉₀ , L ₉₅ , Lhigh, Llow, Lave), Lmax, Lmin, Lpeak				
Sampling in	terval	31.25µs (other th	31.25μs (other than L _N), 100ms (L _N)			
Measureme	nt time	Manual, arbitrary setup (199h59m59s max.)				
Total measu	rement time	<u> </u>	Arbitrary setup (1	99h59m59s max.)		
Start mode		Manual	Manual, Timer (time setting: in increment of 1 second) Trigger (Can be started after a lapse of specified time (after trigger detection: Trigger delay function)			
Internal refe	rence signal		(For upper limit level range : –6 dB(normal range), –16			
Calibration f	function	Function that can perform inspection and adjustment with a recommended sound calibrator.				
Recommend	ed sound calibrator	SC-2600, SC-2500, S	SC-2500A, SC-2120A	SC-2600, SC-2500, SC-2500A		
Display device		List display and trend graph d	Semitransparent LCD with LED backlight (124 x 64-dot), measurement value display by numeric and bar indicator. List display and trend graph display for various kinds of calculated values, displays of day, time, measurement time and conditions of various kinds of instruments.			
Displayed up	pdate time		Numeric: 1s, bar indicator: 0.1s, trend graph: 0.2s			
	Manual memory	Total calculated values: 100 data				
Mamari	Auto memory	_	— Total calculated values: 100 data x 200 blocks, Leq: 1000 data x 200 blocks			
Memory function	Lp record	_	Sound pressure level with time weighting (Lp) is automatically recorded at the specified interval. (1000 data x 200 blocks) Recording interval: Select one from 1ms, 2ms, 5ms, and 10ms.			
Measuremen	t condition memory		Condition memory: 9 kinds			
function	Resume	Settings activated at power ON can be selected fro	om three; Settings used at previous power OFF, factory settings, any	condition memory number which is set from menu		
Analog outp	out	Select one from three; AC output with selected frequency weighting, AC output with Z-weighting, DC output with selected frequency weighting and time weighting				
	Rated AC output	0.707Vrms/F.S. (normal range), 2.236Vrms/F.S. (wide range)				
	Rated DC output	_	2.5V/F.S., 0.25V/10 dB			
	Electrical specification	Output impedance: 50	0Ω , load resistance: $10k\Omega$ or more, applicable cable: Ax	(-501 (sold separately)		
External con	ntrol input	-	Operation: Toggle operation of start/place in pause. Hardware specification: Negative logic pulse input (Voltage level: Low 0.0 to 0.5V, Hi 3.0 to 5.0V) Pulse width: 100ms or more Absolute maximum rated input voltage: 5.0V			
Comparator function (LA-0141:option)		_	Comparison level: Set to 40.0 to 130.0dB (in increme: Comparison measurement item: Lmax or Lpeak Delay time: 0ms, 100ms, 1s, 5s Hold time: 100ms, 1s, 5s, manual Output logic: Negative or positive logic Output signal specification: Open collector (Applied voltage: +3 to +24VDC, current: 50mA or le			
Clock function		Current calendar year/month/day/hour and minute can be displayed and set, with leap year adjustment				
RS-232C		-	Control of main unit and data output, output to an e Baud rate: 9,600/115,200 bps	xclusive printer (DPU-414:discontinued product)		
USB		-	Control of main unit and data output, transfer speed 46080 USB2.0 FULL SPEED (connect to virtual COM port)	10 bps (note) RS-232C cannot be used together.		
Microphone extension*1		305m	n max.	105m max.		
Print function		_	Menu: Measurement value, start/stop time of measurement, actual measurement time, frequency weighting, time weighting Mode: Normal (alpha-numeral) or image data displyed on LCD Applicable printer: DPU-414 (discontinued product)			
Power supply		Size AA battery x 2pcs. or AC adapter (PB-7090, sold separately, power consumption: approx. 4VA at 100VAC)				
Battery life		Approx. 8 hours (LR-6 alkaline batteries in used)				
Operating temperature/humidity range		-10 to 50°C/25 to 90%RH (with no condensation)				
Storage tempera	ature/humidity range	-20 to 60° C/10 to 90° RH (with no condensation)				
Outer dimensions		Approx. 78(W) x 263(H) x 47(D)mm				
Weight			Approx. 360g (including batteries)			
Accessories			x 1, hand strap x 1, size AA battery cell x 2pcs., instruction			

- *1. The cable length given here is the length when each of the exclusive cable sold by Ono Sokki is used.
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*Outer appearance and specifications are subject to change without prior notice.

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